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 IBM Technical Disclosure Bulletins

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DATE: Tuesday, October 19, 2004 [Printable Copy](#) [Create Case](#)

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
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<u>L7</u>	record\$3 SAME orifice\$1 SAME (charg\$3 or discharg\$3) SAME align\$4	316	<u>L7</u>
<u>L6</u>	press\$3 SAME chip SAME head\$1 SAME (thick or thickness) SAME (density or densities)	99	<u>L6</u>
	record\$3 SAME orifice\$1 SAME (port\$1 or opening\$1) SAME wip\$4		

<u>L5</u>	SAME (rub\$4 or slid\$4)	27	<u>L5</u>
<u>L4</u>	record\$3 SAME chamber\$1 SAME nozzle\$1 SAME (path\$1 or way\$1 or direction\$1)	2714	<u>L4</u>
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<u>L2</u>	orifice\$1 SAME wip\$4 SAME (extru\$4 or exten\$4 or protru\$4) SAME record\$3	110	<u>L2</u>
<u>L1</u>	(liquid or ink) NEAR10 (charg\$3 or discharg\$3) SAME record\$3	22110	<u>L1</u>

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20040021728 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 8

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040021728

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040021728 A1

TITLE: Liquid discharge recording head, liquid discharge recording apparatus, and method for manufacturing liquid discharge head

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Umeyama, Mikiya	Tokyo		JP	
Koizumi, Yutaka	Kanagawa-ken		JP	
Yamaguchi, Yukuo	Tokyo		JP	
Fukazawa, Hideo	Kanagawa-ken		JP	
Tajima, Hiroki	Kanagawa-ken		JP	
Hatasa, Nobuyuki	Kanagawa-ken		JP	

US-CL-CURRENT: 347/33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20020036681 A1

L15: Entry 2 of 8

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020036681

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020036681 A1

TITLE: Ink set, recording method, recording unit, ink cartridge and recording apparatus

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Mafune, Kumiko Kanagawa JP
Kanke, Tsuyoshi Kanagawa JP

US-CL-CURRENT: 347/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 3. Document ID: US 20020012021 A1

L15: Entry 3 of 8

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012021
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020012021 A1

TITLE: Liquid discharge recording head, liquid discharge recording apparatus, and method for manufacturing liquid discharge head

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Umeyama, Mikiya	Tokyo		JP	
Koizumi, Yutaka	Yokohama-shi		JP	
Yamaguchi, Yukuo	Tokyo		JP	
Fukazawa, Hideo	Chigasaki-shi		JP	
Tajima, Hiroki	Yokohama-shi		JP	
Hatasa, Nobuyuki	Kawasaki-shi		JP	

US-CL-CURRENT: 347/21; 216/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 4. Document ID: US 6652084 B1

L15: Entry 4 of 8

File: USPT

Nov 25, 2003

US-PAT-NO: 6652084
DOCUMENT-IDENTIFIER: US 6652084 B1

TITLE: Ink-set, ink-jet recording method, recording unit, ink-cartridge, ink-jet recording apparatus and bleeding reduction method using it

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 5. Document ID: US 6652062 B2

L15: Entry 5 of 8

File: USPT

Nov 25, 2003

US-PAT-NO: 6652062

DOCUMENT-IDENTIFIER: US 6652062 B2

TITLE: LIQUID DISCHARGE RECORDING HEAD WITH ORIFICE PLATE HAVING EXTENDED PORTION
FIXED TO RECORDING HEAD MAIN BODY, LIQUID DISCHARGE RECORDING APPARATUS HAVING SUCH
HEAD, AND METHOD FOR MANUFACTURING SUCH HEAD

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6460988 B1

L15: Entry 6 of 8

File: USPT

Oct 8, 2002

US-PAT-NO: 6460988

DOCUMENT-IDENTIFIER: US 6460988 B1

**** See image for Certificate of Correction ****

TITLE: Ink set, recording method, recording unit, ink cartridge and recording
apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6375303 B1

L15: Entry 7 of 8

File: USPT

Apr 23, 2002

US-PAT-NO: 6375303

DOCUMENT-IDENTIFIER: US 6375303 B1

**** See image for Certificate of Correction ****

TITLE: Ink jet recording head, ink jet cartridge and ink jet recording apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6180018 B1

L15: Entry 8 of 8

File: USPT

Jan 30, 2001

US-PAT-NO: 6180018

DOCUMENT-IDENTIFIER: US 6180018 B1

TITLE: Ink jet printing head, manufacturing method therefor, and ink jet printing
apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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L14 & L4

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